

# EXPEDITE



NEORMATION REPORT INFORMATION REPORT

## CENTRAL INTELLIGENCE AGENCY

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OUNTRY		S-E-C-R-E-T					50X1-HUM
OUNTRY							
	USSR (Dneprop	etrovsk Ob	plast)	REPORT			
UBJECT	The DAZ at Dr	nepropetrov	rsk Zavod \	DATE DISTR.	24	March 1961	
( 6	(Dnepropetrov ocilities, Tracti	Mackery ro	ent woodsourse	NO. PAGES	2		
Pr To	wer building,	r officers, unwool n	oises) high	REFERENCES			
ATE OF							50X1-HUM
LACE & DATE ACQ							3377 113111
AIE ACQ	SOURCE E	VALUATIONS	ARE DEFINITIVE. APPR	AISAL OF CONTE	NT IS TI	ENTATIVE.	
2. 3.	it was making from Moscow; trucks. When had been processed.  Conversion was brought was brought	g prototypy just before n conversion duced; DAZ as complet period, nein from the	ctory was converted models of Ukraine conversion, it on actually began took these over sed over a period with machinery, such the Moscow factories tractors began	inets trucks started ser , only about for its use,  of, roughly, as lathes a s where it h	es, with ies pro seven and tr  two or and mill ad beer	duction of the or eight Ukreuck production of the three years. Ing machines, made.	ese rainets' on

(Note: Washington distribution indicated by "X"; Field distribution by "#".)

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	toward Dnepropetrovsk, presumably for shipment elsewhere.	
5.		
6.	up to the time of conversion, the DAZ had between 15,000 and 20,000 workers. After conversion the number increased greatly, until in 1959 there were between 30,000 and 40,000 employee About 500 or 600 people worked in the instrument workshop, in two shifts.	
7.		50X1-HUM
8.	Security was strict both before and after conversion. Civilian guar were used up to the time of conversion; after that, military guards took over. They wore khaki uniforms and red cap bands and carried rifles. There were guard towers along the north and east walls of the plant, and there were also towers along the other two sides. When workers entered the gate (at No. 8 on Appendi A), their passes were checked by the guards. The passes contained the name of the worker, his photograph, and the number of his workshop. Each worker could enter only the shop corresponding to the impass.	50X1-HUM x
9.	The chief engineer at the DAZ was Gregoriyev, who became temporary director just after conversion but who left probably not more than a few months afterwards. The new director was Smirnov, he continued in this post until at least the summer of 1959.	50X1-HUM 50X1-HUM
10.	The report gives a rather detailed description of the instrument workshop, particularly the precision-drilling section. It also describes other DAZ buildings as well as buildings outside the plant. Appendix A gives a layout of the DAZ and a key to the layout. Appendix B is a diagram, with key, of the building which housed the instrument workshop. Appendix C is a sketch of three han cutting tools for lathe operators in the instrument workshop. Appendix D is a sketch of four pattern plates for stamping machines in the precision-drilling section of the instrument workshop. Appendix E is a sketch of a DAZ building with a "tower" about 60 meters high	d 50X1-HUM
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		50X1-HUM



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<u>U. S. S. R</u> .	
SCIENTIFIC/AIR/MILITARY	

The D.A.Z: factory at DNEPROPETROVSK

l. Name	The D.A.Z.	(Dnepropetrovsk Av	to Zavod) factory	was situated	50X1
		ty of DNEPROPETROV		n end of the	50X1-HI

<u>Y</u>	
3. Prior to conversion when the factory came under the Ministry	
of Defence, it was subordinate to the Ministry of Vehicles or Transport	
(or something similar) and was engaged on the production of "Ukrainets"	
In 1948 only prototype models were being made 50X	1-HUM
and engines were supplied from MOSCOM. Just before conversion, series	
production of this type was started and when conversion 50X	1-HUM
actually began, only about 7 or 8 had been produced. These were	
taken over for use by the D.A.Z. and production ceased.	
4. The first sign that conversion to military production was	
taking place was the removal of foreign and other workers , who were	
transferred to other factories in or near DNEPROPETROVSK. There	
SECRET Pappeared to	
50X	1-HUM

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appeared to be no par	rticular discrimination in	the case of the dismissed	
Soviet workers, since	e they included qualified a	nd unqualified workers from	n.
all parts of the plan	nt. It seemed rather that	a certain quota of Soviet	
workers was dismissed	l in addition to the foreig	ners, but the total number	r
cannot be specified.	All those dismissed ware	replaced by Soviet workers	5
including technicians	s, but it did not appear th	at the replacements were	
brought specially fro	om other parts of the U.S.	S.R. In fact, some of th	е
new workers taken on	had applied locally for wo	rk at the D.A.Z. Personnel	
offices.			
5•	the conversion	on of the D.A.Z. was comple	ted
-	r 3 years, but this is only	a rough calculation.	50X1-HUM
	ew machinery was brought to		es
and milling machin	es, in civilian lorries fro	om the MOSCOW factories	
where they had been	made.		
duction		at the DAZ show	.+
	on of 'Belarus" tractors of		50X1-HUN
	otion of "Ukrainets"	had ceased, i.e. when	30X1-1101V
	ry production had already		
·	prototypes only were manu		
determine what jigs	and tools would have to be		
series production.	The "Belarus" was quite a		
tractor, with two sm	mall wheels in front and tw		
		ing the engine, was built	
the D.A.Z. Workers	s employed at the D.A.Z. be	fore conversion and some of	_
those taken on after	rwards were engaged on trac	tor production.	50X1-HUN
	the tractors were		50X1-HUM
were destined	mainly for "Kolhkozes". I	y the end of 1952 or the	
beginning of 1953 t	hese tractors were in serie	s production at the D.A.Z.	
and	they were thereafter to	rned out at the rate of	50X1-HUM
700			
300 per week.			

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sumably for shipmen	at elsewhere.	

## "Instrumentalny" Workshop

192

- 10. The "Instrumentalny" or Instrument workshop was located at No. 1 on the plan of the D.A.Z. lay-out attached at Appendix A. and consisted of a single-storey, brick building, measuring about 200 x 80 m. with a high two-pitch roof and a wooden parquet floor inside, which was always kept very clean. From the outside it looked like most of the other bays within the D.A.Z. complex.
- During the period 1948 to 1953 this shop underwent no modifications, either structurally or internally, nor did its activities appear to change. The only exception to this was that the three main sections within the shop received the numbers 51, 52 and 53 after the conversion of the factory to military production. Both before and after conversion, the shop was generally referred to by the D.A.Z. workers as the "Instrumentalny Tsekh".
- The lay-out of the building is shown on the plan at Appendix B. At one end (No. 3) there was a section 3 storeys high and about 20 m. wide, all three storeys being occupied by offices, including those of the Director, the D.A.Z. Administration and the Party. Access to this section was via two entrances at No. 2 on Appendix B., from which stairs led to the upper floors. At No. 1 was the main entrance to the shop at ground level. At No. 4 there were two small tool stores on the workshop floor, where tools for use in the shop were issued or exchanged over a counter at a window.
- 13. The Precision Drilling section (see below) was situated at No. 5, in a separate enclosure measuring about 25 x 15 m., surrounded by walls up to the roof and with windows on two sides. The Carpentry shop was at No. 7 and consisted of a brick enclosure measuring about 30 m. square.

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The rest of the f	loor space of the building was occupied by rows of lath	les,
milling, planing,	polishing and non-precision drilling machines.	
14. At No	os. 8 and 9 was another 3-storey section about 30 m. wid	le,
access to which w	was gained by a stairway inside the shop. Part of this	3
section at No. 9	was occupied by the offices of the shop management and	ì
the other part at	: No. 8 consisted of two canteens, one for the workers	and
the other for the	management and officials. At No. 10 was the vehicle	
entrance and at N	No. 11 another door used for the disposal of workshop we	aste.
15. As al	ready stated, the building contained three workshops	
numbered 51, 52 a	and 53, all of which were engaged on the production of	tools
for use in the fa	actory and within the shop itself. One section made di	rills,
varying in size f	from 10 mm. to 30 mm. in diameter for use in non-precis	ion
drilling machine	es, Another section made hand outting tools for lathe	
operators as show	wn on Appendix C. A third section was engaged on fini	shing
and polishing the	ese tools, which were then supplied to the whole factor	50X1-HUM
	• Tool repairs	and 50X1-HUM
pattern production	on were also carried out in this building. The outtin	g COXT HOW
edge of the hand	tools for lathe operators was made of steel or widia	
("vidia")•		
Preo	ision Drilling Shop	
16. This	was situated at No. 5 on Appendix B. and was equipped	with
7 or 8 drilling	machines of different sizes and makes.	50X1-HUM
three of	one of Czech, one of Hungarian and one of	50X1-HUM
manufacture, and	lall were in use in this section from 1948 until at lea	ast 50X1-HUM
summer 1953. 0	ne other machine, delivered in 1949, had been specially	7
made in	and bore Russian wording together with an origin me	erk 50X1-HUM
SIP in capital 1	etters inside a large capital C. The precision drilli	ing
work required ve	ery accurate measuring, which was carried out by means	of
adjustable hand	measuring instruments, except in the case of the larges	st .
drilling machin	nes which were equipped	
optical measuring	ng instruments.	50X1-HUM
17. Prev	vious to conversion, work within the precision drilling	
	a distributed by one of the drillers themselves, but the	
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		50X1-HUM

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found to be too great a waste of skilled labour time, so a foreman was brought in for the purpose. His name was SUEV and his duty was to distribute the work every day to the drillers.

50X1-HUM

- 18. Precision drilling was carried out on various shapes and sizes of pattern plates for stamping machines, as illustrated at Appendix D. All drillers worked on the same type of pattern plates and there was no change in their shape or design during the period 1948 to 1953. The foreman in charge used to issue the plates, which always consisted of a set of two, together with a scale drawing showing the exact position at which the holes were to be drilled and the measurements involved.
- The sets of rectangular plates (No. 1 on Appendix D.) were of 19. various sizes, the smallest being about 30 cms. long and the largest about 60 oms., there being several sizes in between. Only two holes were drilled in the smallest plates at opposite corners, one about 20 mm. in diameter and the other about 30 mm. On the larger plates four holes were drilled, one at each corner, the two larger being about 60 mm. in diameter the different sizes of and the smaller about 50 mm. 50X1-HUM holes enabled the plates to be matched up correctly in position on the The smaller plates were each about 20 mm. thick and stamping machines. They were made of both steel and cast iron the largest about 50 mm. and had been through a previous polishing process before being passed on to the drillers.
- 20. The plates at No. 2 on Appendix D. were of both steel and cast iron, but seemed to be of one standard size only and about 40 cms. long, although they came in different thicknesses, the same as those at Nos. 1 and 3.
- The majority of plates drilled in this section were of the shape shown at No. 3 on Appendix D. and they were always of cast iron.

  As a result, quite a large proportion oracked while being drilled. They were of different sizes, the smallest being about 20 oms. across at their widest point and about 30 mm. thick, while the largest were about 50 oms. across and 50 to 55 mm. thick. The distance between the centres of the holes drilled in the "ears" varied from 120 mm. up to 100 mm. in the largest.

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	22. The circular plates shown at No. 4 on Appendix D. were of two 50X1-	нім
	or three different sizes, having a diameter of 40 mm, 60 mm. and 65 mm.,	10111
	They were all .5 mm. thick and all had 50X1-	MUŀ
	T-shaped pieces out out round the outside edge as shown on the sketch₄	
	These plates had a small round hole drilled in the centre by the precision	
	drilldrs.	
	23. It took each driller from 2 to 3 hours to complete the work	
	of drilling holes in each set of plates. Prior to being received in the	
	precision drilling section, the plates were prepared by fitters and came	
	from somewhere else in the factory. patterns were out 50X1-	
	in the plates after they left the precision drilling section and the 50X1-h	IUIVI
	plates were subsequently used in stamping machines in some other part of the factory for the series production of components.   compared the 50X1-	41 IV/I
	the factory for the series production of componentscompared the 50X1-l-process to that used in the large scale production of parts for motor	IOW
	oars.	HUM
	24. The "Instrumentalny" shop had no store of raw materials, which	
	were brought in as and when required unloaded at the 50X1-	HUM
	door at No. 10 on Appendix B. Raw materials consisted of iron bars of	
	all sizes for use by the lathe operators and also steel sheet of all sizes	
	up to about 1 m. square. The sheet was of various thicknesses up to	
	about 5 cms. and those which were too heavy to work with, were cut into	
	more manageable sections with a blow lamp. The materials were moved round 50X1-H	UM
Г	the shop on small lift trucks.	
0ther	Buildings in the D.A.Z. Plant	
	25. Next to the "Instrumentalny" shop at No. 2 on Appendix A.	
	was another building of approximately the same size, which was started in	
	1954, but work had apparently been abandoned on it, because by the summer	
	SECRET Of 1959	
	SECRET 9853 50X1-I	HUM
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of 1959 it had still not been completed. All that could be seen was the metal framework of the building without roof or walls, although the shape of the roof structure suggested that it was designed to be flat. 50X1-HUM there had been 50X1-HUM no signs of activity there for quite a time prior to the summer of 1959. At No. 3 on Appendix A. there was another shop, similar in shape and size to the "Instrumentalny", construction of which was begun in 1949 or 1950. Next to it at No. 4 there were 5 or 6 smaller shop measuring about 100 x 30 m. and 2 storeys high, built between 1952 and 1953. They were all of brick with double-pitch roofs. This collection of buildings/situated about 80 m. from the boundary wall enclosing the factory and there were trees planted in the intervening space. At No. 5 there was a building, construction of which started 27. in 1950 or 1951 and was apparently completed by the summer of 1953. It consisted of one sketch of the building is attached at Appendix E. section measuring about 120 x 60 x 25-30 m. high with a double-pitch roof and a second section at the eastern end in the form of a "tower", measuring 30 x 60 m. and rising to a height of about 60 m., or about

inside the building. There were also windows in the lower part of the building and the "tower" section could be seen from outside the factory. 50X1-HUM

twice the height of the first section. This "tower" had a flat roof.

The whole construction was of brick and on three sides of the tower there

were about 5 rows of windows, each apparently corresponding to one floor

28. There was a collection of buildings still under construction in the summer of 1953 at No. 6, and at No. 7 another building about 250 m. long with many windows in it, which gave the impression of being longer and lower than the majority of shops within the D.A.Z., all of which seemed to be of similar design. There were no other shop between No. 7 and the factory entrance at No. 8, this area being occupied by an open space planted with trees.

29. At the southern end of the building at No. 7 there were two round cooling towers and 3 or 4 tall chimneys at No. 10.

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30. Th	e vehicle entranc	e at No. 11 was	used by tract		07(1-110
driven away fr	om the plant and			the tractors	50X1-I
were produced	in the shop at No	D+ 3+			
					50X1-
+a:30 +1	ne D.A.Z. Plant				
	welling houses for	r D.A.Z. workers	were situate	d immediately	
	of the plant on b				
	or 4 storeyed b				
	ving 6 entrances				Ð
	ompleted in 1949				
	till under constr				
	s area was finish				50X1-
estate in thi		veen 10,000 and 1			ted
to these budi	dings and they we	are all D.A.Z. em	ployees and	their families.	50X1-F
	workers lived in				
	Appendix A. const				
	commenced in the				
	it the end of bloc		ian Post Off.	ice was opened	
33. in 1949 or 19		nel Office of the			
	ere until at leas			cations to work	ς.
	. were made to th			d to sign	
	rtakings here, af				7
		the offices of "			
production.	een housed in the				
	f small houses at				
	The D.A.Z. Hospit				
	department at No.				m
	wall of the fac				
		andria values p	<b></b>	<del>-</del>	
railway work		at No. 21 was us	ed by the fa	ctory football	
35•	The Sports Arena	at No. 21 was us	sea by one la	2021 20000	
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Addr	esses
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36. Up to the latter half of 1958 or the beginning of 1959 no street names were used in this newer part of the city of DNEFROPETROVSK. Houses were referred to by their corresponding number followed by the district only. For instance the D.A.Z. houses were in the Niezny Posiclok and were therefore known by their number, such as 4, followed by Niezny Posiclok only. At about the time mentioned above, the system was changed and the streets were given names, so that addresses henceforth bore the street name and the number as usual.

#### Noises

37•	first heard noises	coming from inside	the D.A.Z. plant	50X1-HUM
at some time after	the building situa	ted at No. 5 on App	endix A. had been	50X1-HUM
completed, i.e. la	tter half of 1953.		noises	
sounding like thos	e emitted by a very	powerful engine.	They started on a	50X1-HUM
low note, which co	ntinued for just un	der 30 seconds and	then rose to a ve	ery
high, unpleasant w	hine, which was hel	d for a few seconds	only and then the	•
noise ceased altog	ether, having laste	d for a total of ap	oproximately 30	
seconds.				

- 38. When the noises were in progress windows rattled in the D.A.Z. dwelling houses, but the earth did not shake. The noises always seemed to emanate from the area at No. 5 and at night a bright glare appeared, which seemed to be concentrated over this area. It was light red in colour and appeared to extend upwards to a height of about 150 m. The glare was accompanied by some thin smoke and both the glare and the smoke disappeared as soon as the noise ceased. The noise could be heard in the town of DNEPROPETROVSK, but not very loudly.
- 59. The noises occurred on an average about twice every 24 hours, except on Sundays, nearly always at night but sometimes once during the day and once at night. This pattern frequency of the noises was maintained

between 1953 and the summer of	1959
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40. No explanation was given to the workers to account for the noises, nor were any special precautions taken before, during or after them.

SECRET SECRET The Workers

		S	ECRE	ET				
The worker	s did not	discuss	the subjec	t or enqui	re into	it <b>i</b> n an	y way, in	50X1-HU
case they	should be	consider	ed unduly :	inquisitiv	8•			50X1-HUI
	pply							
ectricity Su			power w	as brought	to the	factory	from	50X1-H
45•								
45•	on steel	pylons						
45•	on steel	pylons		light an	d power	within t	he plant	

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**SECRET** - 11 -50X1-HUM Labour up to the time of conversion, there were 47. 50X1-HUM between 15,000 and 20,000 workers employed in the D.A.Z. this number was greatly increased, until in 1959 there were between 30,000 and 40,000 workers there. Soon after conversion a notice appeared outside the D.A.Z. 48. Personnel office at No. 14 on Appendix A. offering vacancies to lathe As a result long queues of operators and milling machine operators. applicants could be seen waiting outside the office, but in 1956 or 1957 this notice had been removed and the queues of applicants consequently the D.A.Z. had reached its 50X1-HUM disappeared. full complement of machine operators at that time. About 500 or 600 workers were employed in the "Instrumentalny" shop and, although some were dismissed on conversion, they were subsequently replaced so that the total number remained about the same as before. TWO shifts were worked, one from 7 a.m. to 4 p.m. and the other from 4 p.m. to Although there was no official night shift, workers sometimes midnight. had to stay on or come in after midnight if specially required to do so. Lunch hours were staggered as the canteen was not large enough to accommodate Workers! pay was distributed twice a month in the shop one whole shift. itself. All D.A.Z. employees started work at 7 a.m. except for 50. technicians and office workers, who started at 8 a.m. Security Security at the D.A.Z. was strict both before and after conversion 51. Guard duties were carried out by civilian "Okhrana" guards up to the time of conversion, but after that military guards took over. They wore khaki military uniforms, red cap bands and carried rifles. There were guard towers along the north and east walls of the 52. there were also towers along the other factory and 50X1-HUM two sides. When workers entered the gate at No. 8 on Appendix A. their 53• The passes were made of blue passes were checked by the guards. ardboard 50X1-HUM

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cardboard folded in two with no markings on the outside. Inside they carried 50X1-HUM the name of the worker, his photograph and the number of his workshop, so that each worker was only authorised to enter the shop corresponding to the number on his pass. On leaving employment at the D.A.Z., the workers had to hand over their passes to the Personnel office.

Fire Pre <b>c</b> aution	s	
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54.	No instruction was given, nor were any sp	ecial precautions taken
against the	risk of fire and smoking was permitted in	the "Instrumentalny"
workshop.	there was a fire sta	tion equipped with 50X1-HUN
several fir	e engines within the factory complex and	50X1-HUM
it was	located somewhere near the entrance at No	o. 22 on Appendix A. 50X1-HUM
against the	east wall.	
Air-Raid Precau	tions	
55•	lectures on civil defe	ence were not given to 50X1-HUM
the D.A.Z.	workers and no air	r-raid shelters within 50X1-HUM
the plant	remises.	33X1 113N

## Personalities

The Chief Engineer at the D.A.Z. was CREGORIEV (f.n.u.), who became temporary Director just after the conversion to military production, but who left probably not more than a few months afterwards. The new Director was SMIRNOV (f.n.u.) and he was believed to have continued in this post until at least the summer of 1959.

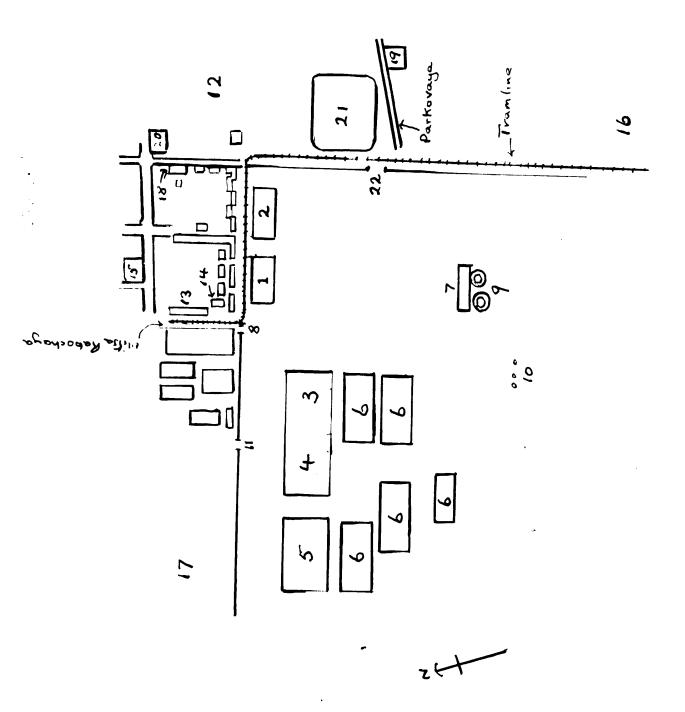
## Visits

57•	Regular visits, probably about once a week, were made to the	
	es singly. The officers were usually of Lieutenant rank.	50X1-H
	The Air Force officers went to the Director's office	
situated in	The Air Force officers went to the Director's office the "Instrumentalny" shop building and usually stayed all day	50X1-H
	the "Instrumentalny" shop building and usually stayed all day	50X1-H
	the "Instrumentalny" shop building and usually stayed all day	50X1-H
situated in	the "Instrumentalny" shop building and usually stayed all day	50X1-H

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## KEY TO APPRIDIX A.

- 1. "Instrumentalny" werkshop
- 2. New building (construction apparently abandened)
- 3. Werkshep about same size as "Instrumentalny"
- 4. Group of smaller workshops
- 5. Building with "tower"
- 6. Group of buildings
- 7. Long, low building with many windows
- 8. Werkers' entrance
- 9. Two cooling towers
- 10. Chimneys
- 11. Lorry entrance
- 12. Area where new D.A.Z. houses being built in 1959
- 13. D.A.Z. housing block in which Post Office was situated
- 14. D.A.Z. Persennel offices
- 15. "Trest 17" effices
- 16. Area where "Trest 17" effices previously located
- 17. Collection of houses not connected with D.A.Z.
- 18. D.A.Z. Hespital
- 19. D.A.Z. Out-Patients Clinic
- 20. Hespital for railway workers
- 21. Sports' Arena
- 22. Entrance to D.A.Z.

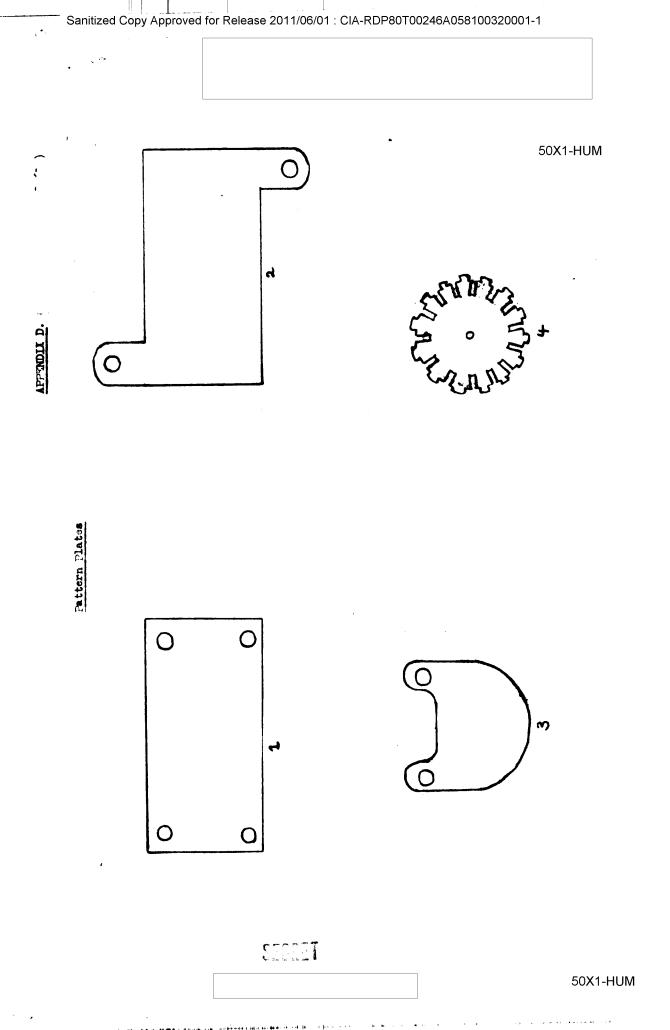


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### KEY TO APPENDIX B.

- 1. Werkers! Intrance to shop
- 2. Entrance to offices of Director, Party, etc.
- 3. Offices
- 4. Tool issuing counters
- 5. Precision Drilling section
- 6. Floor of "Instrumentalny" shop
- 7. Carpentry shop
- 8. Canteens
- 9. Workshop Management effices
- 10. Entrance used by lerries
- 11. Door for disposal of workshop waste.

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APPENDIX C.	· · · · · · · · · · · · · · · · · · ·	50X1-HUM
Hand outting tools		
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 allows as supported that the species of the species		3 - 3 - 1 - 1 - 1 - 1 - 1 - 1 - 1



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